



State of the County's Health Report

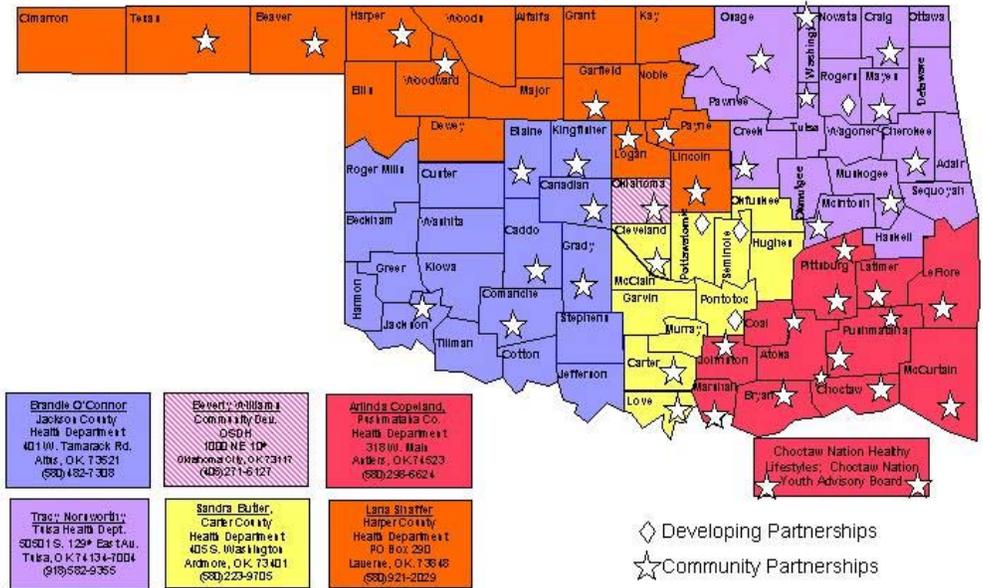
A Look Back To Move Forward

Pawnee County

The state of Oklahoma has been in a downward health trend since the 1990's, until recently. Through the efforts of the state and county health departments, state and local governments and the individual communities the health of Oklahomans is looking up. However, we could do more to improve the health of the citizens of Oklahoma.

This report focuses on the health factors for the citizens of Pawnee County. We will take a look back to discover what has been affecting the health of the citizens in order to move forward and make healthy, effective and safe changes for all.

TURNING POINT PARTNERSHIPS and FIELD CONSULTANT DISTRICT



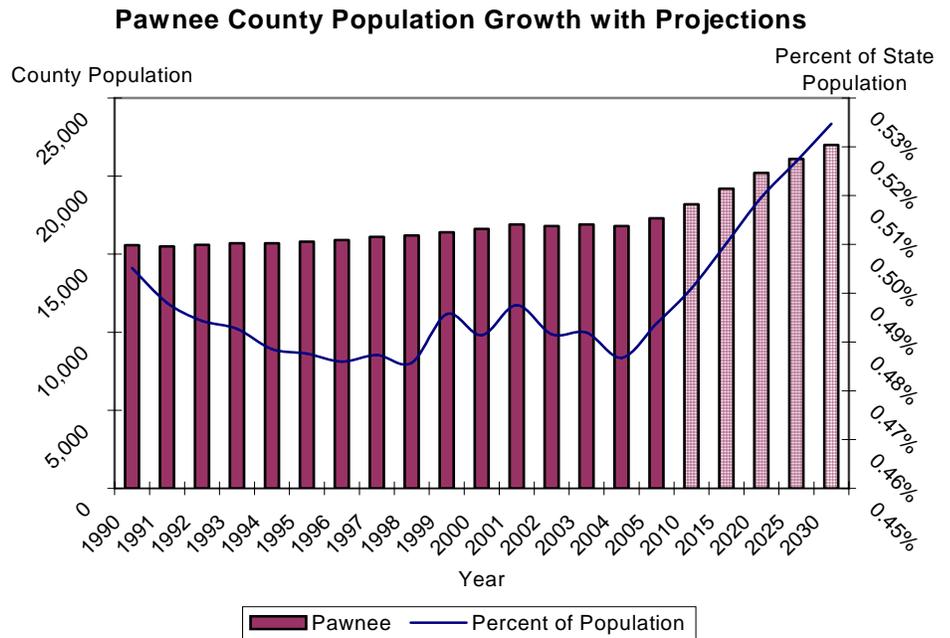
Inside this issue:

| | | | |
|--|---|-----------------------------------|---|
| County Demographics | 2 | Teen Pregnancy | 5 |
| Top 10 Leading Causes of Death | 2 | Poverty | 5 |
| Nutrition & Obesity | 2 | OK By One—State Immunization Data | 6 |
| Top 10 Leading Causes of Death Table | 3 | County Health Department Usage | 7 |
| Injury & Violence | 4 | Health Care Costs Summary | 7 |
| Tobacco use | 4 | Turning Point | 8 |
| Physical Activity, Wellness & Diabetes | 4 | | |

Demographics

* U.S. Census Bureau

- Population estimates
 - 7% increase from 1990 to 2000 (15,575 to 16,612)
 - 1% increase from 2000 to 2004
 - Ranked 30th for growth in state
- 2000 Census
- Hispanic/Latino ethnicity = 1%
- Race
 - Whites = 82%
 - Native Americans = 12%
 - Blacks = 1%
 - Other/Multiple = 5%
- Age
 - Under 5 = 6%
 - Over 64 = 15%
 - Median age = 38.5 years
- Housing units
 - Occupied = 6,383 (86%)
 - Vacant = 1,081 (14%)
- Disability (ages 21 to 64) = 23.1% national = 19.2% state = 21.5%
- Individuals below poverty = 13.0% national = 12.4% state = 14.7%



* Vital Statistics, Health Care Information Systems, OSDH & Centers for Disease Control

Top 10 Leading Causes of Death

The top 10 leading causes of death table on the next page displays a broad picture of the causes of death in Pawnee County. Since many health-related issues are unique to specific ages, this table provides causes of death by age group at a glance. The causes of death that are present across almost every age group have been highlighted. From 1983 to 1993 heart disease killed 652 people in Pawnee County and

is still the leading cause of death among all age groups. According to the Centers for Disease Control, almost \$400,000 is spent on each heart disease-related death. With an average of 62.9 deaths a year, heart disease accounts for over \$23 million a year in medical costs in

Heart disease accounts for over \$23 million a year in medical costs in Pawnee County.

Pawnee County.

Alzheimer's disease and the complications associated with it did not change in the rankings from the previous 11-year period (1983-1993). It is still the 12th ranked cause of death in people 65 and older but the number of deaths increased 125%.

* Behavioral Risk Factor Surveillance System, Health Care Information System, OSDH & Health Affairs Journal, R. Strum, 2002

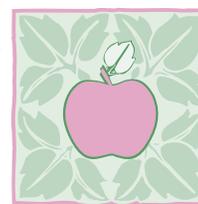
Nutrition and Obesity

With the United States coming in as the most obese country in the world, health care costs related to obesity and poor nutrition are on the rise.

Of the 292 million people in the United States, 129 million are overweight or obese according to their body mass index (BMI). The number of obese (BMI > 29) and overweight (BMI 25-29) Oklahomans has been increasing at the

same rate as the nation, and health care costs are reflecting this downward spiral of health. For persons under the age of 65, on average, health care costs are \$395 more for obese individuals and are even greater for persons over the age of 65.

In 2002-2004, 28.2%



**Sensible Foods – Sensible Portions
5 to 9 Fruits & Vegetables a Day**

(4,734) of people in Pawnee County were considered obese which accounted for an additional \$1,869,930 in medical costs for the county. These costs are underestimated because they do not take into account the percentage of obese or overweight persons who are over the age of 65.

Top 10 Causes of Death by Age Group Pawnee County 1993-2003

| Rank | 0-4 | 05-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65+ | All Ages |
|------|-----------------------------------|-----------------------|----------------------------------|----------------------------|----------------------------------|--------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| 1 | CONGENITAL ANOMALIES 3 | UNINTENT. INJURY 4 | UNINTENT. INJURY 14 | UNINTENT. INJURY 15 | UNINTENT. INJURY 24 | CANCER 45 | CANCER 84 | HEART DISEASE 579 | HEART DISEASE 693 |
| 2 | CANCER 2 | SUICIDE 1 | SUICIDE 4 | CANCER 4 | CANCER 14 | HEART DISEASE 31 | HEART DISEASE 69 | CANCER 296 | CANCER 446 |
| 3 | PERINATAL PERIOD 2 | | HOMICIDE/LEGAL 3 | SUICIDE 4 | HEART DISEASE 10 | UNINTENT. INJURY 15 | BRONCHITIS/EMPHYSEMA/ASTHMA 11 | STROKE 137 | STROKE 155 |
| 4 | UNINTENT. INJURY 2 | | BRONCHITIS/EMPHYSEMA/ASTHMA 1 | CONGENITAL ANOMALIES 2 | SUICIDE 7 | LIVER DISEASE 8 | STROKE 10 | BRONCHITIS/EMPHYSEMA/ASTHMA 92 | UNINTENT. INJURY 107 |
| 5 | HEART DISEASE 1 | | CONGENITAL ANOMALIES 1 | HEART DISEASE 2 | STROKE 5 | SUICIDE 4 | DIABETES MELLITUS 7 | INFLUENZA/PNEUMONIA 46 | BRONCHITIS/EMPHYSEMA/ASTHMA 105 |
| 6 | HERNIA 1 | | CANCER 1 | HOMICIDE 2 | HOMICIDE/LEGAL 3 | STROKE 3 | LIVER DISEASE 7 | KIDNEY DISEASE 40 | INFLUENZA/PNEUMONIA 51 |
| 7 | SEPTICEMIA (BLOOD POISONING) 1 | | OTHER 2 | NON-CANCEROUS TUMOR 1 | LIVER DISEASE 2 | DIABETES MELLITUS 1 | UNINTENT. INJURY 6 | DIABETES MELLITUS 34 | DIABETES MELLITUS 44 |
| 8 | SIDS 1 | | | COMPLICATED PREGNANCY 1 | BRONCHITIS/EMPHYSEMA/ASTHMA 1 | HYPERTENSION 1 | INFLUENZA/PNEUMONIA 3 | ATHERO-SCLEROSIS 33 | KIDNEY DISEASE 42 |
| 9 | OTHER 2 | | | DIABETES MELLITUS 1 | DIABETES MELLITUS 1 | INFLUENZA/PNEUMONIA 1 | SEPTICEMIA (BLOOD POISONING) 3 | UNINTENT. INJURY 27 | ATHERO-SCLEROSIS 34 |
| 10 | | | | OTHER 6 | TWO CAUSES TIED 1 | TWO CAUSES TIED 1 | EIGHT CAUSES TIED 1 | PNEUMONITIS 21 | LIVER DISEASE 29 |

Data source: Vital Statistics, Health Care Information Division, Oklahoma State Department of Health

Produced by: Community Development Service, Community Health Service, Oklahoma State Department of Health

July 2005

Injury and Violence

Across the nation and the state of Oklahoma, unintentional and violence-related injuries are on the rise. Unintentional injuries account for the 4th leading cause of death in the United States and the 5th leading cause of death in Oklahoma from 1999-2002. For persons ages 1 to 44 in Oklahoma, unintentional injuries are the leading cause of death.

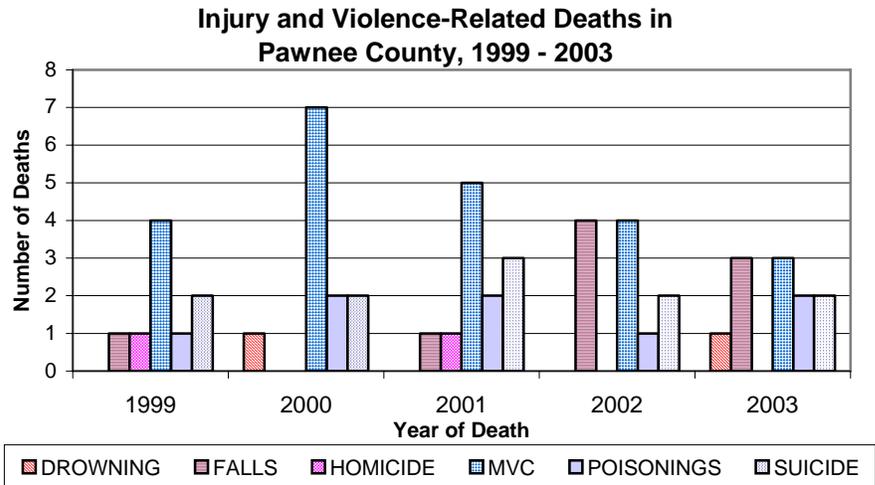
This trend does not change much in Pawnee County. Unintentional injuries are the leading cause of death from ages 5 to 44.

It is estimated that for every motor vehicle-related death \$1.1 million in economic costs are incurred. For Pawnee County which has an average of 4.6 motor vehicle-related deaths a year,

that translates to over \$5 million a year.

Violence-related injuries (homicide

and suicide) in Pawnee County are ranked in the top 10 in five of the eight age groups (see Top 10 list on page 3).



* *Vital Statistics*, Health Care Information Systems, OSDH & Centers for Disease Control

Tobacco Use

According to the 2005 State of the State's Health Report, tobacco use among Oklahomans has remained fairly stable from 1990 to 2002. Oklahoma has been consistently higher in its tobacco use than the nation and is 30% higher than the nation on the amount of tobacco consumed per capita (103 packs vs. 79 packs).

Tobacco use is no longer just the

problem of the individual but also the community as a whole. With health care costs on the rise, targeting areas such as tobacco use is an effective way to control those costs.

In 2002, the CDC estimated that a person that used tobacco accrued over \$3,300 in health care costs per year. According to the Be-

havioral Risk Factor Surveillance Sys-

tem, it is estimated that 44.8% (7,521) of people in Pawnee County use tobacco of some sort. Medical costs accumulated by those persons are almost \$25 million a year for Pawnee County.

“Medical costs accumulated by those persons are almost \$25 million a year for Pawnee County”

* *Behavioral Risk Factor Surveillance System*, Health Care Information System, OSDH & American Diabetes Association, 2002

Physical Activity, Wellness and Diabetes

The increasing inactivity of the U.S. population is contributing to an increase in numerous poor health-related outcomes. Physical inactivity robs the body of precious energy needed to function properly, in turn health declines and rates of various chronic diseases escalate.

According to the 2002-2004 Behavioral Risk Factor Surveillance System (BRFSS), it is estimated that 41.9%

(7,035) of people in Pawnee County had no leisure activity in the past month at the time they were surveyed.

The BRFSS also indicated that 7.3% (1,226) of Pawnee County citizens have been diagnosed by a health professional as having dia-



Increase activity gradually. Moderate exercise for 30 minutes 5 days a week.

betes. In 2002, the per capita annual healthcare costs for people with diabetes was \$13,243 compared to \$2,560 for people without diabetes. Persons with diabetes accumulated health care costs of \$16,235,918.00 in one year for Pawnee County.

Teen Pregnancy

While births to teen mothers (age 15 to 19) are on the decline in both the U.S. and Oklahoma, Oklahoma has moved up in rank from 13th to 8th in the country. In 1993 the rate of teen births

was 60.0 (per 1,000 15-19 year old females) in the U.S. and 66.6 in Oklahoma. In 2003, the rate decreased to 41.7 in the U.S. and 55.8 in Oklahoma, a decrease of

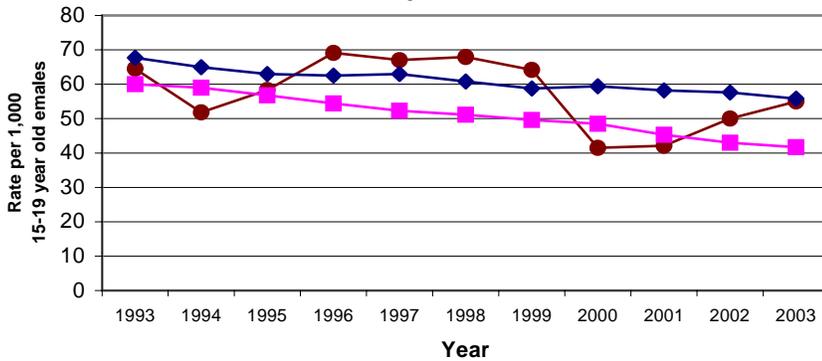
31% and 7%, respectively.

Children of teen mothers are more likely to display poor health and social outcomes than those of older mothers, such as premature birth, low birth weight, higher rates of abuse and neglect, and more likely to go to foster care or do poorly in school. Additionally, births to teen mothers accumulate \$3,200 a year for each teenage birth, which is passed on to citizens.

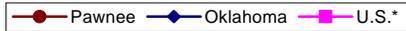
According to Oklahoma Vital Statistics, Pawnee County had a teen birth rate of 55 in 2003 which was a 10% increase from 2002 (50) but a 15% decrease since 1993 (64.5).

With an average of 33 births per year, teen pregnancy costs the citizens of Pawnee County \$105,600.00 a year.

Rate of Live Births to Teen Mothers, Ages 15-19, Pawnee County, 1993 to 2003



*2003 U.S. data is preliminary



Note: 5 births to a mother 10-14 years of age occurred during the 11 year period.

Poverty

* U.S. Census Bureau

As the nation advances in technology and the ability to detect and prevent disease at an earlier stage, persons that are impoverished carry a large burden of poor health outcomes. Higher incidences of unplanned or unwanted pregnancies, teen pregnancy, inade-

quate prenatal care, higher rates of low-birth-weight babies, infant deaths and low immunization rates are all associated with poverty along with a myriad of other adverse health outcomes.

According to the 2000 census, 13.0% of persons in Pawnee

County for whom poverty status was known had an income below what was needed to live at the federal poverty level. Pawnee County is 11% below the state (14.7%) and 5% above the nation (12.4%) for persons with incomes below the federal poverty level.

Income to Poverty Ratio, Pawnee County, 2000 Census

| Poverty level | Total | 50% below | 51% to 99% below | poverty level to 149% above | 150% to 199% above | 200% and above |
|-----------------------|--------|-----------|------------------|-----------------------------|--------------------|----------------|
| Population | 16,389 | 739 | 1,397 | 2,014 | 2,159 | 10,080 |
| Cumulative Population | | 739 | 2,136 | 4,150 | 6,309 | 16,389 |
| % of Total | 100.0% | 4.5% | 8.5% | 12.3% | 13.2% | 61.5% |
| Cumulative % | | 4.5% | 13.0% | 25.3% | 38.5% | 100.0% |

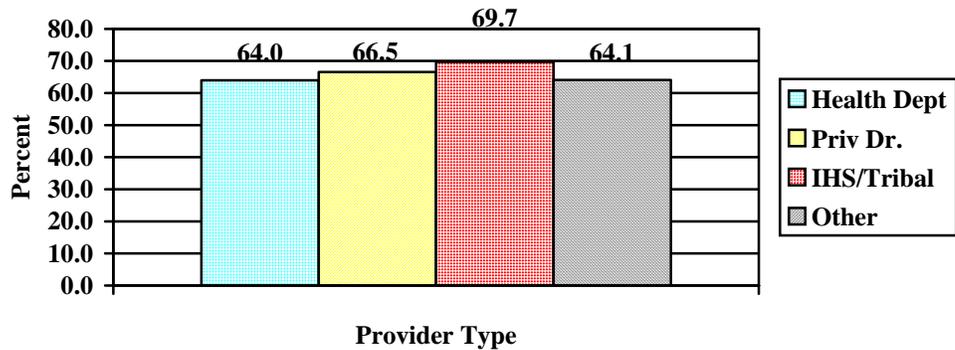
OK By One - State Immunization Data

* 2 Year-old Immunization Survey, Immunization Service, OSDH

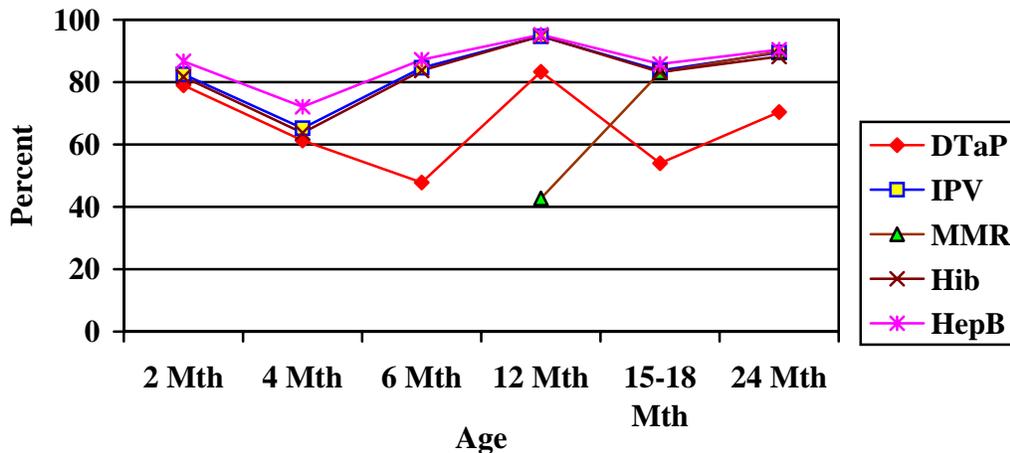
2003-04 Immunization Coverage Rates



4:3:1:1:3 Coverage by Location of Shots, Oklahoma, 2004

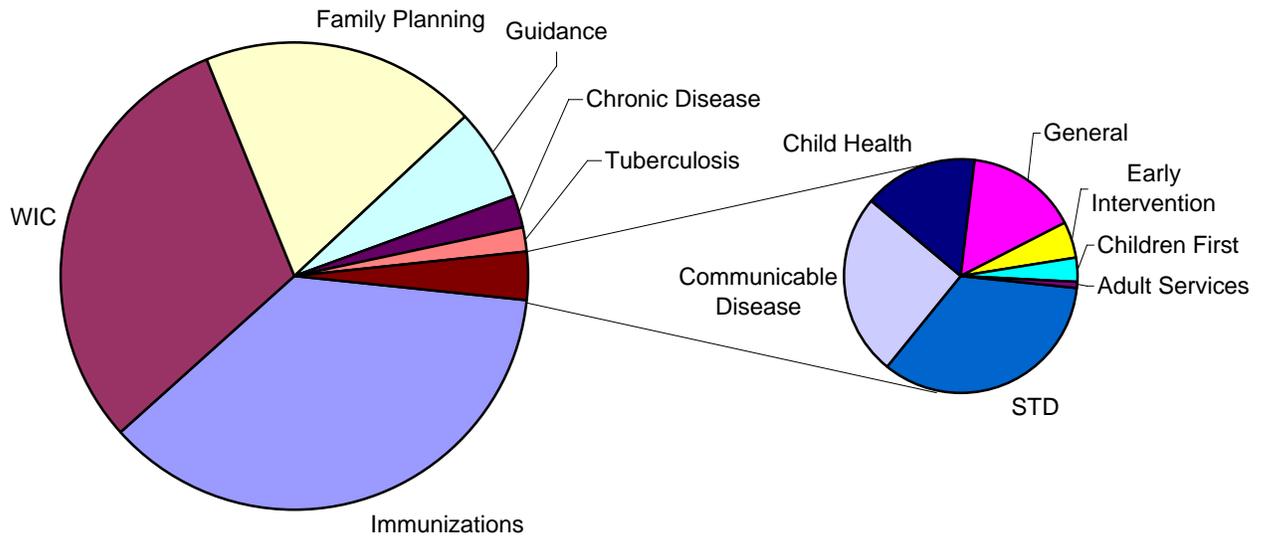


Oklahoma Children On Schedule by Antigen, 2004



**Note: County level data will be available soon.

Attended Appointments for Pawnee County Health Department, State Fiscal Year 05



Health Care Costs Summary

Cardiovascular Disease (Heart Disease)

- Average 63 deaths a year
- \$369,476.69 per death
- Total— \$23,277,031.47 a year

Obesity

- 28.2% of population (4,734)
- \$395.00 in additional medical costs per person
- Total—\$1,869,930.00

Motor Vehicle-Related Injury Death

- Average 4.6 deaths per year
- \$1,120,000.00 in economic costs per death
- Total—\$5,152,000.00 a year

Tobacco Use

- 44.8% of population (7,521)
- \$3,300.00 in health care costs
- Total—\$24,819,300.00 a year

Diabetes

- 7.3% of population (1,226)
- \$13,243.00 in healthcare costs a year
- Total—\$16,235,918.00 a year

Teen Pregnancy

- Average of 33 births to teen mothers per year
- \$3,200.00 in costs for each birth a year
- Total— \$105,600.00 a year



Grand Total for Pawnee County:

\$71,459,779.47



**OKLAHOMA STATE
DEPARTMENT OF HEALTH**

Community Health Services
Community Development Service

1000 NE 10th St, Rm 508
Oklahoma City, OK 73117
Phone: 405-271-6127
Fax: 405-271-1225
Email: neil@health.ok.gov

Pawnee County Health Department

639 Seventh St
Pawnee, OK 74058
918-762-3643

1390 W Cherokee
Cleveland, OK 74020
918-358-2546

Looking Back to Move Forward

Report compiled by:
Miriam McGaugh, M.S.
Community Development Service, OSDH
Kelly Baker, MPH
Health Care Information Systems, OSDH

The Oklahoma Turning Point Initiative is public health improvement in action. The success of the Turning Point process involves a partnership between the state and county departments of health, local communities, and policy-makers. The Oklahoma Turning point engine is fueled by a community-based decision making process whereby local communities tap into the capacities, strengths, and vision of their citizens to create and promote positive, sustainable changes in the public health system, and the public's health.

Oklahoma Turning POINT



*Oklahoma Community Partners
in Public Health Innovation*